

Summary of Relevant Dioxin Action Levels for SJRWP

Updated: April 8, 2011

- 1) **Sediment:** Dioxin Background Levels
 - National Range: <researching>
 - SJRWP Specific: 0.108 to 5.72 ppt dioxin TEQ non-OC normalized (See Figure 5).
- 2) **Sediment:** Time Critical Removal Action
 - ISE Parameter: sample >4.5 ppt 2,3,7,8-TCDD non-OC normalized, >330 ppt 2,3,7,8-TCDD OC normalized, up to 1966 boundary of north impoundments.
- 3) **Sediment:** CWA 404, RHA 10 Dredging Permits
 - Yes dredging, but dispose in hazardous waste landfill: sample >1000 TEQ non-OC normalized.
 - Yes dredging, but dispose in upland confined disposal area: sample >0.45 ppt 2,3,7,8-TCDD non-OC normalized, >33 ppt 2,3,7,8-TCDD OC normalized.
 - Yes dredging and no disposal restrictions: sample <0.45 ppt 2,3,7,8-TCDD non-OC normalized, <33 ppt 2,3,7,8-TCDD OC normalized.
- 4) **Sediment:** Lowest National Site Specific Numerical Clean Up Levels
 - 15 ppt TEQ non-OC normalized (FS->draft proposed plan, Centredale Manor Restoration Project Superfund Site, EPA Region 1)
 - 21 ppt TEQ non-OC normalized (McCormick and Baxter/Stockton Plant Superfund Site, EPA Region 9)
 - 10 ppt TEQ non-OC normalized (frequently proposed by ODEQ as Tribal ARAR)
 - It appears many default to sediment background if the risk-based number is lower.
- 5) **Sediment:** Highest National Site Specific Numerical Clean Up Levels
 - <researching>
- 6) **Soil:** Dioxin Background Levels
 - National Range: 0.2 to 11.4 ppt TEQ non-OC normalized
 - SJRWP Specific: <researching>
- 7) **Soil:** 1988 EPA Dioxin PRGs (current policy):
 - Residential: 1000 ppt TEQ non-OC normalized
 - Commercial/Industrial: between 5000 and 20000 ppt TEQ non-OC normalized
- 8) **Soil:** 2010 Proposed Dioxin Reassessment PRGs (under review):
 - Residential: 72 ppt TEQ non-OC normalized (~non-cancer HQ=1, ~cancer 10E-5)
 - Commercial/Industrial: 950 ppt TEQ non-OC normalized (~non-cancer HQ=1, cancer 10-E)